

This listing of claims will replace all prior versions, and listings, of claims in the present application.

LISTING OF CLAIMS:

Claim 1 (Currently Amended) A process for producing an insensitive explosive mixture comprising depositing sonochemically aminated 1,3,5-triamino-2,4,6-trinitrobenzene (TATB) in an amount of less than 15 % by weight onto secondary explosive crystals.

Claim 2 (Cancelled)

Claim 3 (Original) The process of Claim 1 wherein the secondary explosive crystals are selected from the group consisting of cyclotrimethylenetrinitramine (RDX), cyclotetramethylenetetranitramine (HMX), CL-20 (2,4,6,8,10,12-hexanitrohexaazaisowurzitane, HNIW), PETN (pentaerythritoltetranitrate) and combinations thereof.

Claim 4 (Original) The process of Claim 3 wherein the secondary explosive crystals are HMX crystals.

Claim 5 (Original) The process of Claim 1 wherein the secondary explosive crystals are in an ammonia solution.

Claim 6 (Original) The process of Claim 1 wherein the sonochemically aminated TATB is synthesized from 1,3,5-trichloro-2,4,6-trinitrobenzene (TCTNB) by amination with NH_4OH under the influence of ultrasonic irradiation.

Claim 7 (Original) The process of Claim 1 wherein the sonochemically aminated TATB is produced by dropping a solution of trichlorotriamnitrobenzene (TCTNB) in toluene into an ammonia solution that is immiscible with the solution of TCTNB in toluene and reacting the same in the presence of an ultrasonic source.

Claim 8 (Original) The process of Claim 1 wherein the sonochemically animated TATB is produced in-situ during said depositing step.

Claim 9 (Original) The process of Claim 1 wherein said in-situ production comprises providing a suspension of said explosive crystals in an aqueous ammonia solution and adding a solution of 1,3,5-trichloro-2,4,6-trinitrobenzene in toluene dropwise.

Claim 10 (Currently Amended) The process of Claim 1 further comprising adding an additional[[.]] [[B]]binder after to said depositing step.

Claim 11 (Currently Amended) The process of Claim [[11]]10 wherein the additional binder comprises a polyacrylic elastomer, a phthalate, calcium stearate, or fumed silica.